

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	60	"5461188"	US-PGPUB; USPAT	OR	OFF	2006/07/05 17:39
L2	1	"5461188".pn.	US-PGPUB; USPAT	OR	OFF	2006/07/05 17:39
S1	11	(("6151010") or ("4887197") or ("3892478") or ("4196461") or ("4164942") or ("4972305") or ("5191319") or ("5280742") or ("5313276") or ("5818342") or ("6233086")).PN.	US-PGPUB; USPAT	OR	OFF	2005/01/31 13:52
S2	3	(("4394656") or ("4713658") or ("4376404")).PN.	US-PGPUB; USPAT	OR	OFF	2005/01/31 13:50
S3	9	dowling-kevin.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 14:22
S4	5	johnston-scott.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 14:24
S5	391	((343/73) or (340/815.46) or (84/464R)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 14:24
S6	213	S5 and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/02 09:35
S7	391	((343/73) or (340/815.46) or (84/464R)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 10:08
S8	213	S7 and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 10:08
S9	50	S8 and beat	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 14:08

## EAST Search History

S10	19	driv\$3 adj led same ((pulse adj width adj modulation) "pwm") and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 14:14
S11	2	("5191319").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 14:10
S12	104	(intensity brightness) same led same ((pulse adj width adj modulation) "pwm") and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/01 15:54
S13	35	(("3,111,057") or ("3,163,077") or ("3,205,755") or ("3,215,022") or ("3,240,099") or ("3,241,419") or ("3,307,443") or ("3,540,343") or ("3,550,497") or ("3,845,468") or ("4,176,581") or ("4,753,148") or ("4,768,086") or ("4,753,148") or ("4,843,627") or ("4,962,687") or ("5,010,459") or ("5,078,039") or ("5,209,560") or ("5,307,295") or ("5,329,431") or ("5,402,702") or ("5,461,188") or ("5,642,129") or ("5,673,059") or ("5,734,590") or ("5,769,527") or ("6,008,783") or ("6,016,038") or ("6,025,550") or ("6,031,343") or ("6,097,352") or ("6,150,774") or ("6,166,496") or ("6,211,626") or ("6,292,901")).PN.	USPAT	OR	OFF	2005/02/01 15:56
S14	391	((343/73) or (340/815.46) or (84/464R)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/02 09:35
S15	213	S14 and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/02 09:38
S19	15	"5191319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 11:48
S20	3	(("5191319") or ("5461188") or ("6618037")).PN.	US-PGPUB; USPAT	OR	OFF	2005/06/23 11:48

## EAST Search History

S21	3	(("5191319") or ("5461188") or ("6618031")).PN.	US-PGPUB; USPAT	OR	OFF	2005/06/23 12:44
S22	168	composite near audio near video	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 12:45
S23	105	S22 and @pd<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 13:36
S24	0	implement near "comptuer readable medium" and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 13:37
S25	15	implement near "computer readable medium" and @ad<"20000621"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 13:37
S26	1	("5191319").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/03 13:56
S27	27	("2340559"   "3924231"   "3949350"   "4056805"   "4128846"   "4259709"   "4376404"   "4394656"   "4614942"   "4713658"   "4754202"   "4768086"   "4771280"   "4790629"   "4809584").PN. OR ("5191319").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/11 11:40
S28	12	("3990105"   "4378466"   "4768086"   "5005459"   "5191319"   "5359341"   "5689078"   "6021204"   "6046724"   "6225545").PN. OR ("6686529").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/11 11:44
S29	330	(84/464R).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 11:44
S30	150	S29 and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/01/11 11:44
S31	16	("3222574"   "3895553"   "4078469"   "4300225"   "4327623"   "4440059"   "4692117"   "4928568"   "4995026"   "5078039"   "5113738"   "5121435"   "5402702").PN. OR ("5501131").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/11 11:47

## EAST Search History

S32	30	("4587643"   "4613965"   "4641295"   "4697176"   "4707818"   "4753148").PN. OR ("4995026").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/11 11:48
S33	0	(340/814.46).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:36
S34	52	(340/815.46).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:36
S35	3085845	S34 adn @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:37
S36	48	S34 and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:38
S37	799	(700/94).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:38
S38	203	S37 and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/01/11 12:46
S39	34	84/464A.ccls. and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/01/12 09:43
S40	1	("6,270,229").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/12 15:38
S41	1	("6577080").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/12 15:38
S42	1	("5191319").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:26
S43	465	logic with implement with hardware with software	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:31
S44	110	S43 and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:28
S45	817	S44 and "381"\$.ccls. or 700/94.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:28
S46	0	S44 and ("381"\$.ccls. or 700/94. ccls.)	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:28
S47	0	S44 and ("381"/\$.ccls. or 700/94. ccls.)	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:28
S48	0	S44 and ("381"/\$.ccls. or 700/94. ccls.)	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:28
S49	0	S44 and "381"/\$.ccls	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:29
S50	0	S44 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:29
S51	0	S44 and 700/94.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:29
S52	0	S44 and "84"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:30

## EAST Search History

S53	3025	logic with hardware with software and @ad<"20000621"	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:31
S54	13	S53 and "84"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/01 11:31
S55	1	("5,461,188").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/01 17:26
S57	1	("6867820").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/02 10:58
S58	1	("5191319").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/05 12:46
S59	28	("2340559"   "3924231"   "3949350"   "4056805"   "4128846"   "4259709"   "4376404"   "4394656"   "4614942"   "4713658"   "4754202"   "4768086"   "4771280"   "4790629"   "4809584").PN. OR ("5191319").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 12:46
S60	25	("5179718"   "5286908"   "5467288"   "5533902"   "5536903"   "5553002"   "5557424"   "5574915"   "5585583"   "5604100"   "5657221"   "5715318"   "5734119"   "5736633"   "5736663"   "5739451"   "5757386"   "5787413"   "5792972"   "5802524"   "5874686"   "5952597"   "5952598"   "5963957"   "6096961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 12:57
S61	4	"digital audio" with (determine calculate) with characteristic!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:00
S62	77	"digital audio" and (determine calculate) near2 characteristic!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:05
S63	28	S62 and @ad<"20000621"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:02
S64	1	digital adj music and color adj organ	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:02
S65	4	"digital music" and (determine calculate) near2 characteristic!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:03
S66	0	"digital music" and (determine calculate) near2 (amplitude and freqeuncy)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:05
S67	5	music and (determine calculate) near2 characteristic! with digital\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:05

## EAST Search History

S68	28	("2340559"   "3924231"   "3949350"   "4056805"   "4128846"   "4259709"   "4376404"   "4394656"   "4614942"   "4713658"   "4754202"   "4768086"   "4771280"   "4790629"   "4809584").PN. OR ("5191319").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:07
S69	799892	S68 adn digital	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:07
S70	9	S68 and digital	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:07
S71	8	("5191319"   "5403261"   "5504522"   "5659173").PN. OR ("6046724").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:10
S72	10	("3990105"   "4378466"   "4768086"   "5005459"   "5191319"   "5359341"   "5689078"   "6021204"   "6046724"   "6225545").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:11
S73	14	("4577188"   "4648113"   "4691358"   "4768086"   "4908868"   "5191620"   "5241302"   "5247864"   "5272756"   "5528255"   "5619220"   "5812688").PN. OR ("6021204").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:16
S74	26	flanders.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 13:16